BioMap and Living Waters

Guiding Land Conservation for Biodiversity in Massachusetts

Core Habitats of Mashpee

This report and associated map provide information about important sites for biodiversity conservation in your area.

This information is intended for conservation planning, and is <u>not</u> intended for use in state regulations.

Produced by:

Natural Heritage & Endangered Species Program
Massachusetts Division of Fisheries and Wildlife
Executive Office of Environmental Affairs
Commonwealth of Massachusetts

Produced in 2004

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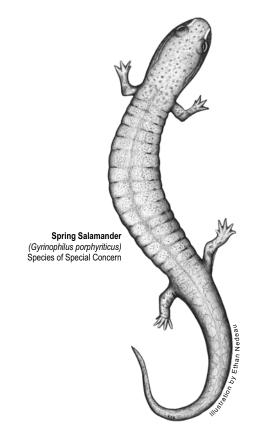
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* Depending on the location of Core Habitats, your city or town may not have all of these sections.



Funding for this project was made available by the Executive Office of Environmental Affairs, contributions to the Natural Heritage & Endangered Species Fund, and through the State Wildlife Grants Program of the US Fish & Wildlife Service.



Guiding Land Conservation for Biodiversity in Massachusetts

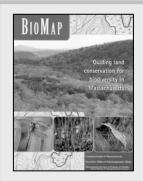
Introduction

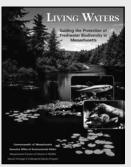
In this report, the Natural Heritage & Endangered Species Program provides you with site-specific biodiversity information for your area. Protecting our biodiversity today will help ensure the full variety of species and natural communities that comprise our native flora and fauna will persist for generatons to come.

The information in this report is the result of two statewide biodiversity conservation planning projects, BioMap and Living Waters. The goal of the BioMap project, completed in 2001, was to identify and delineate the most important areas for the long-term viability of terrestrial, wetland, and estuarine elements of biodiversity in Massachusetts. The goal of the Living Waters project, completed in 2003, was to identify and delineate the rivers, streams, lakes, and ponds that are important for freshwater biodiversity in the Commonwealth. These two conservation plans are based on documented observations of rare species, natural communities, and exemplary habitats.

What is a Core Habitat?

Both BioMap and Living Waters delineate Core *Habitats* that identify the most critical sites for biodiversity conservation across the state. Core Habitats represent habitat for the state's most viable rare plant and animal populations and include exemplary natural communities and aquatic habitats. Core Habitats represent a wide diversity of rare species and natural communities (see Table 1), and these areas are also thought to contain virtually all of the other described species in Massachusetts. Statewide, BioMap Core Habitats encompass 1,380,000 acres of uplands and wetlands, and Living Waters identifies 429 Core Habitats in rivers, streams, lakes, and ponds.





Get your copy of the BioMap and Living Waters reports! Contact Natural Heritage at 508-792-7270, Ext. 200 or email natural.heritage@state.ma.us. Posters and detailed technical reports are also available.

Core Habitats and Land Conservation

One of the most effective ways to protect biodiversity for future generations is to protect Core Habitats from adverse human impacts through land conservation. For Living Waters Core Habitats, protection efforts should focus on the *riparian areas*, the areas of land adjacent to water bodies. A naturally vegetated buffer that extends 330 feet (100 meters) from the water's edge helps to maintain cooler water temperature and to maintain the nutrients, energy, and natural flow of water needed by freshwater species.

In Support of Core Habitats

To further ensure the protection of Core Habitats and Massachusetts' biodiversity in the long-term, the BioMap and Living Waters projects identify two additional areas that help support Core Habitats.

In BioMap, areas shown as Supporting Natural *Landscape* provide buffers around the Core Habitats, connectivity between Core Habitats, sufficient space for ecosystems to function, and contiguous undeveloped habitat for common species. Supporting Natural Landscape was



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BioMap and Living Waters:

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generated using a Geographic Information Systems (GIS) model, and its exact boundaries are less important than the general areas that it identifies. Supporting Natural Landscape represents potential land protection priorities once Core Habitat protection has been addressed.

In Living Waters, *Critical Supporting Watersheds* highlight the immediate portion of the watershed that sustains, or possibly degrades, each freshwater Core Habitat. These areas were also identified using a GIS model. Critical Supporting Watersheds represent developed and undeveloped lands, and can be quite large. Critical Supporting Watersheds can be helpful in land-use planning, and while they are not shown on these maps, they can be viewed in the Living Waters report or downloaded from www.mass.gov/mgis.

Understanding Core Habitat Species, Community, and Habitat Lists

What's in the List?

Included in this report is a list of the species, natural communities, and/or aquatic habitats for each Core Habitat in your city or town. The lists are organized by Core Habitat number.

For the larger Core Habitats that span more than one town, the species and community lists refer to the <u>entire</u> Core Habitat, not just the portion that falls within your city or town. For a list of <u>all</u> the state-listed rare species within your city or town's boundary, whether or not they are in Core Habitat, please see the town rare species lists available at <u>www.nhesp.org</u>.

The list of species and communities within a Core Habitat contains <u>only</u> the species and

Table 1. The number of rare species and types of natural communities explicitly included in the BioMap and Living Waters conservation plans, relative to the total number of native species statewide.

BioMap			
	Species and Verified		
	Natural Community Types		
Biodiversity Group	Included in BioMap	Total Statewide	
Vascular Plants	246	1,538	
Birds	21	221 breeding species	
Reptiles	11	25	
Amphibians	6	21	
Mammals	4	85	
Moths and Butterflies	52	An estimated 2,500 to 3,000	
Damselflies and Dragonflies	25	An estimated 165	
Beetles	10	An estimated 2,500 to 4,000	
Natural Communities	92	> 105 community types	
Living Waters			
		Species	
Biodiversity Group	Included in Living Waters	Total Statewide	
Aquatic			
Vascular Plants	23	114	
Fishes	11	57	
Mussels	7	12	
Aquatic Invertebrates	23	An estimated > 2500	

natural communities that were explicitly included in a given BioMap or Living Waters Core Habitat. Other rare species or examples of other natural communities may fall within the Core Habitat, but for various reasons are not included in the list. For instance, there are a few rare species that are omitted from the list or summary because of their particular sensitivity to the threat of collection. Likewise, the content of many very small Core Habitats are not described in this report or list, often because they contain a single location of a rare plant



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species. Some Core Habitats were created for suites of common species, such as forest birds, which are particularly threatened by habitat fragmentation. In these cases, the individual common species are not listed.

What does 'Status' mean?

The Division of Fisheries and Wildlife determines a status category for each rare species listed under the Massachusetts Endangered Species Act, M.G.L. c.131A, and its implementing regulations, 321 CMR 10.00. Rare species are categorized as Endangered, Threatened, or of Special Concern according to the following:

- Endangered species are in danger of extinction throughout all or a significant portion of their range or are in danger of extirpation from Massachusetts.
- *Threatened* species are likely to become Endangered in Massachusetts in the foreseeable future throughout all or a significant portion of their range.
- **Special Concern** species have suffered a decline that could threaten the species if allowed to continue unchecked or occur in such small numbers or with such restricted distribution or specialized habitat requirements that they could easily become Threatened in Massachusetts.

In addition, the Natural Heritage & Endangered Species Program maintains an unofficial watch list of plants that are tracked due to potential conservation interest or concern, but are not regulated under the Massachusetts Endangered Species Act or other laws or regulations. Likewise, described natural communities are not regulated any laws or regulations, but they can help to identify ecologically important areas that are worthy of protection. The status of natural

Legal Protection of Biodiversity

BioMap and Living Waters present a powerful vision of what Massachusetts would look like with full protection of the land that supports most of our biodiversity. To create this vision, some populations of state-listed rare species were deemed more likely to survive over the long-term than others.

Regardless of their potential viability, all sites of state-listed species have full legal protection under the Massachusetts Endangered Species Act (M.G.L. c.131A) and its implementing regulations (321 CMR 10.00). Habitat of state-listed wildlife is also protected under the Wetlands Protection Act Regulations (310 CMR 10.37 and 10.59). The *Massachusetts Natural Heritage Atlas* shows Priority Habitats, which are used for regulation under the Massachusetts Endangered Species Act and Massachusetts Environmental Policy Act (M.G.L. c.30) and Estimated Habitats, which are used for regulation of rare wildlife habitat under the Wetlands Protection Act. For more information on rare species regulations, see the *Massachusetts Natural Heritage Atlas*, available from the Natural Heritage & Endangered Species Program in book and CD formats.

BioMap and Living Waters are conservation planning tools and do not, in any way, supplant the Estimated and Priority Habitat Maps which have regulatory significance. Unless and until the combined BioMap and Living Waters vision is fully realized, we must continue to protect all populations of our state-listed species and their habitats through environmental regulation.

communities reflects the documented number and acreages of each community type in the state:

- Critically Imperiled communities typically have 5 or fewer documented sites or have very few remaining acres in the state.
- *Imperiled* communities typically have 6-20 sites or few remaining acres in the state.
- *Vulnerable* communities typically have 21-100 sites or limited acreage across the state.
- **Secure** communities typically have over 100 sites or abundant acreage across the state; however excellent examples are identified as Core Habitat to ensure continued protection.



Massachusetts Division of Fisheries and Wildlife

Understanding Core Habitat Summaries

Following the BioMap and Living Waters Core Habitat species and community lists, there is a descriptive summary of each Core Habitat that occurs in your city or town. This summary highlights some of the outstanding characteristics of each Core Habitat, and will help you learn more about your city or town's biodiversity. You can find out more information about many of these species and natural communities by looking at specific *fact sheets* at www.nhesp.org.

Next Steps

BioMap and Living Waters were created in part to help cities and towns prioritize their land protection efforts. While there are many reasons to conserve land – drinking water protection, recreation, agriculture, aesthetics, and others – BioMap and Living Waters Core Habitats are especially helpful to municipalities seeking to protect the rare species, natural communities, and overall biodiversity within their boundaries. Please use this report and map along with the rare species and community fact sheets to appreciate and understand the biological treasures in your city or town.

Protecting Larger Core Habitats

Core Habitats vary considerably in size. For example, the average BioMap Core Habitat is 800 acres, but Core Habitats can range from less than 10 acres to greater than 100,000 acres. These larger areas reflect the amount of land needed by some animal species for breeding, feeding, nesting, overwintering, and long-term survival. Protecting areas of this size can be

very challenging, and requires developing partnerships with neighboring towns.

Prioritizing the protection of certain areas within larger Core Habitats can be accomplished through further consultation with Natural Heritage Program biologists, and through additional field research to identify the most important areas of the Core Habitat.

Additional Information

If you have any questions about this report, or if you need help protecting land for biodiversity in your community, the Natural Heritage & Endangered Species Program staff looks forward to working with you.

Contact the Natural Heritage & Endangered Species Program:

by Phone 508-792-7270, Ext. 200

by Fax: 508-792-7821

by Email: natural.heritage@state.ma.us.

by Mail: North Drive

Westborough, MA 01581

The GIS datalayers of BioMap and Living Waters Core Habitats are available for download from MassGIS: www.mass.gov/mgis

Check out www.nhesp.org for information on:

- Rare species in your town
- Rare species fact sheets
- BioMap and Living Waters projects
- Natural Heritage publications, including:
 - Field guides
 - * Natural Heritage Atlas, and more!



Massachusetts Division of Fisheries and Wildlife

Mashpee

Core Habitat BM1250

Natural Communities

 Common Name
 Scientific Name
 Status

 Coastal Atlantic White Cedar Swamp
 Imperiled

 Coastal Plain Pondshore
 Imperiled

 Kettlehole Level Bog
 Imperiled

 Pitch Pine - Scrub Oak Community
 Imperiled

Plants

Common Name Scientific Name Status Adder's-Tongue Fern Ophioglossum pusillum Threatened **Broad Tinker's-Weed** Triosteum perfoliatum Endangered Creeping St. John's-Wort Hypericum adpressum Threatened Long-Beaked Bald-Sedge Rhynchospora scirpoides Special Concern Maryland Meadow Beauty Rhexia mariana Endangered Ovate Spike-Sedge Eleocharis ovata Endangered Pondshore Knotweed Polygonum puritanorum Special Concern Purple Milkweed Asclepias purpurascens Endangered Lachnanthes caroliana Special Concern Redroot Reticulate Nut-Sedge Scleria reticularis Watch Listed Sandplain Flax Linum intercursum Special Concern Short-Beaked Bald-Sedge Rhynchospora nitens Threatened Terete Arrowhead Special Concern Sagittaria teres Torrey's Beak-Sedge Rhynchospora torreyana Endangered Weak Rush Juncus debilis Endangered Wright's Panic-grass Dichanthelium wrightianum Special Concern



Mashpee

Invertebrates

Common Name	Scientific Name	<u>Status</u>
Barrens Buckmoth	Hemileuca maia	Special Concern
Barrens Daggermoth	Acronicta albarufa	Threatened
Blueberry Sallow	Apharetra dentata	
Chain Dot Geometer	Cingilia catenaria	Special Concern
Coastal Heathland Cutworm	Abagrotis nefascia benjamini	Special Concern
Coastal Swamp Metarranthis Moth	Metarranthis pilosaria	Special Concern
Comet Darner	Anax longipes	Special Concern
Dune Noctuid Moth	Oncocnemis riparia	Special Concern
Frosted Elfin	Callophrys irus	Special Concern
Gerhard's Underwing Moth	Catocala herodias gerhardi	Special Concern
Melsheimer's Sack Bearer	Cicinnus melsheimeri	Threatened
New England Bluet	Enallagma laterale	Special Concern
Oak Hairstreak	Satyrium favonius	Special Concern
Pine Barrens Bluet	Enallagma recurvatum	Threatened
Pine Barrens Itame	Itame sp. 1 near inextricata	Special Concern
Pine Barrens Zale	Zale sp. 1 near lunifera	Special Concern
Spatterdock Darner	Aeshna mutata	Special Concern
Spiny Oakworm	Anisota stigma	Special Concern
Straight-lined Mallow moth	Bagisara rectifascia	Special Concern
The Pink Streak	Faronta rubripennis	Threatened
Tule Bluet	Enallagma carunculatum	Special Concern
Unexpected Cycnia	Cycnia inopinatus	Threatened
Water-Willow Stem Borer	Papaipema sulphurata	Threatened
Waxed Sallow Moth	Chaetaglaea cerata	Special Concern



Mashpee

Vertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Eastern Box Turtle Terrapene carolina Special Concern

Grasshopper Sparrow Ammodramus savannarum Threatened

Northern Harrier Circus cyaneus Threatened

Upland Sandpiper Bartramia longicauda Endangered

Core Habitat BM1378

Invertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Comet Darner Anax longipes Special Concern

New England Bluet Enallagma laterale Special Concern

Pine Barrens Bluet Enallagma recurvatum Threatened

Water-Willow Stem Borer Papaipema sulphurata Threatened

Core Habitat BM1387

Plants

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Plymouth Gentian Sabatia kennedyana Special Concern

Redroot Lachnanthes caroliana Special Concern

Invertebrates

Common Name Scientific Name Status

Comet Darner Anax longipes Special Concern

New England Bluet Enallagma laterale Special Concern

Pine Barrens Bluet Enallagma recurvatum Threatened



Mashpee

Core Habitat BM1391

Vertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Bird Migration Habitat ------

Northern Parula Parula americana Threatened

Core Habitat BM1421

Vertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Least Tern Sterna antillarum Special Concern

Piping Plover Charadrius melodus Threatened

Core Habitat BM1435

Vertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Diamondback Terrapin Malaclemys terrapin Threatened

Least Tern Sterna antillarum Special Concern

Piping Plover Charadrius melodus Threatened

Core Habitat BM1437

Plants

Common Name Scientific Name Status

Small Site for Rare Plant



BioMap: Core Habitat Summaries

Mashpee

Core Habitat BM1250

This large Core Habitat encompasses two globally important types of natural communities, the Pitch Pine-Scrub Oak community and the Coastal Plain Pond community. These and other habitats support two dozen rare species of moths, butterflies, dragonflies, and damselflies, including some of the largest and most viable populations in the state for several of these insect species. The Core Habitat also contains a diversity of rare plant species, many of which are associated with Coastal Plain Pondshores. Further protecting this Core Habitat's large Pine-Oak woodlands and barrens may provide the best opportunity in the state to conserve viable populations of Eastern Box Turtles. This is also one of the most important areas in New England for the conservation of landbirds characteristic of these habitats. Except for a portion within the Crane Wildlife Management Area in Falmouth, much of this important Core Habitat is not explicitly protected for biodiversity conservation.

Natural Communities

This large Core Habitat encompasses several areas of the Pitch Pine-Scrub Oak natural community type, including an unusual example in Mashpee with small Atlantic White Cedar Bogs included. The largest area of Pitch Pine-Scrub Oak community is in the Camp Edwards area and forms an important habitat connection with the Pitch Pine-Scrub Oak community to the north in Plymouth. Pitch Pine-Scrub Oak communities are globally rare, fire dependant shrub-dominated communities, with scattered to dense trees. They provide habitat for many rare species, and develop on dry, poor soils, usually made up primarily of sand. This Core Habitat also contains a pristine and well-buffered Coastal Plain Pondshore community with intact pondshore vegetation unaffected by disturbances, cranberry operations, or public water supply wells. Coastal Plain Pondshores are globally rare herbaceous communities of exposed pondshores with a distinct Coastal Plain flora. Water levels change with the water table, typically leaving an exposed shoreline in late summer where many rare species grow.

Plants

More than a dozen species of rare plants is found growing in various habitats within this large Core Habitat. Among them is the inconspicuous Adder's-Tongue Fern, usually found in wet meadows. Also present are the Long-Beaked Bald-Sedge and Torrey's Beak-Sedge, two members of the sedge family found along Coastal Plain pondshores. In fact, many of the rare plant species found within this area are associated with Coastal Plain pondshore natural communities.

BioMap: Core Habitat Summaries

Mashpee

Invertebrates

This Core Habitat supports no fewer than 24 invertebrate species that are listed as Endangered, Threatened, or Species of Special Concern in Massachusetts, including 19 species of moths and butterflies and five species of dragonflies and damselflies. One of these species is found nowhere else in Massachusetts. For many others, one of their largest and most viable populations is found within this Core Habitat. Besides barrens species such as the Frosted Elfin butterfly, the Melsheimer's Sack Bearer moth, and the Barrens Daggermoth, this Core Habitat includes many other habitats for rare invertebrates, including heathlands inhabited by species such as the Chain Dot Geometer moth and the Waxed Sallow moth; acidic shrub swamps and kettlehole bogs that are habitat for the Coastal Swamp Metarranthis moth and the Water-willow Stem Borer moth; sandplain grasslands that provide habitat for the Pink Streak moth and the Unexpected Cycnia moth; and Coastal Plain ponds inhabited by the Comet Darner dragonfly and the Pine Barrens Bluet damselfly.

Vertebrates

Collectively, the large and relatively unfragmented tracts of pine-oak woodlands and barrens contained within this Core Habitat may be the single most important area for the long-term conservation of viable populations of Eastern Box Turtles in Massachusetts. This is also one of the most important areas in New England for the conservation of landbirds characteristic of these habitats. Significant breeding populations of Whip-poor-wills are still present. This was one of the most important breeding sites for Upland Sandpipers and Grasshopper Sparrows in southern New England, but grassland habitat has declined substantially during the past 20 years due to vegetative succession resulting from lack of mowing or burning. Both of these species of grassland birds would benefit from management to increase the acreage of contiguous grassland on the cantonment area of the Massachusetts Military Reservation and to minimize mowing on the Otis Air National Guard airfield during the May 1 to July 31 nesting season. Northern Harriers use the extensive shrublands and remaining grasslands for nesting and foraging. Protection of the remaining undeveloped portions of this area would preserve a minimally fragmented 12 mile-long tract of oak-pine woodland and barrens habitats extending from the northern edge of Falmouth's urban areas north to the Cape Cod Canal.

Core Habitat BM1378

Invertebrates

This Core Habitat includes Washburn Pond and adjacent wetlands that are habitat for rare dragonflies and damselflies including the Comet Darner, the New England Bluet, and the Pine Barrens Bluet, as well as for the Water-willow Stem Borer moth. Although relatively small and surrounded by development, this Core Habitat is located less than 10 km from other habitats for these species, including Core Habitats in Bourne, Sandwich, Falmouth, Barnstable, and Mashpee. This proximity allows for occasional dispersal of rare invertebrate species among all of these areas, which is important to maintain viable populations.



BioMap: Core Habitat Summaries

Mashpee

Core Habitat BM1387

This Core Habitat in Mashpee and Falmouth encompasses Coastal Plain ponds that support a diversity of damselflies and dragonflies, as well as rare plants such as Redroot and the globally rare Plymouth Gentian. While parts of this Core Habitat are on municipal and private conservation lands, protecting the remaining unprotected areas would help conserve the rare species found here.

Plants

Redroot, an unusual plant of the Coastal Plain, is found in one part of this Core Habitat. In addition, a population of the beautiful and globally rare Plymouth Gentian is growing within this area.

Invertebrates

Coastal Plain ponds within this Core Habitat, including Johns, Moody, Grassy, and Flashy Ponds, as well as several smaller ponds, all provide habitat for rare dragonflies and damselflies including the Comet Darner, New England Bluet, and Pine Barrens Bluet. Although mostly surrounded by development, this Core Habitat is located within dispersal distance of nearby habitats for its rare dragonfly and damselfly inhabitants, including Core Habitats in Bourne, Sandwich, Falmouth, Mashpee, and Barnstable. This proximity allows for occasional dispersal of dragonflies and damselflies between all of these sites, which is important to maintain viable populations.

Core Habitat BM1391

Vertebrates

This Core Habitat encompasses riparian and adjacent upland forests along the Mashpee River that provide breeding habitat for the Northern Parula, a species of warbler that rarely breeds in Massachusetts and is believed to be declining here. This stretch of riparian forest, located only 1.5 miles north of Popponesset Bay on Nantucket Sound, also provides valuable migration habitat near the coast for many species of landbirds.

Core Habitat BM1421

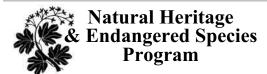
Vertebrates

Popponesset Spit supports breeding Piping Plovers, and, in some years, Least Terns. Potential threats to nesting coastal waterbirds include habitat alteration and loss, human disturbance (including dogs), and predation. Annual protection from these threats is needed.

Core Habitat BM1435

Vertebrates

Washburn Island and South Cape Beach support breeding Piping Plovers and Least Terns. Potential threats to nesting coastal waterbirds include habitat alteration and loss, human disturbance (including dogs), and predation. Annual protection from these threats is needed.



Massachusetts Division of Fisheries and Wildlife

Living Waters: Species and Habitats

Mashpee

Core Habitat LW081

Fishes

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

American Brook Lamprey Lampetra appendix Threatened

Core Habitat LW223

Invertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Tidewater Mucket Leptodea ochracea Special Concern

Core Habitat LW224

Invertebrates

<u>Common Name</u> <u>Scientific Name</u> <u>Status</u>

Tidewater Mucket Leptodea ochracea Special Concern

Core Habitat LW225

Invertebrates

Common Name Scientific Name Status

Eastern Pondmussel Ligumia nasuta Special Concern

Tidewater Mucket Leptodea ochracea Special Concern

Triangle Floater Alasmidonta undulata Special Concern

Core Habitat LW322

Exemplary Habitats

Common Name Scientific Name Status

Fish Habitat ------



Living Waters: Core Habitat Summaries

Mashpee

Core Habitat LW081

This Core Habitat supports a population of the Threatened American Brook Lamprey. There are only 12 known populations within the state; this population is the only known population on Cape Cod. This primitive, eel-like fish species has a skeleton made of cartilage. It is generally an indicator of clean, silt-free water, as it needs clean gravel in riffle habitats to spawn (breed). Completing the network of permanently protected riparian lands adjacent to the Core Habitat and controlling sediment runoff from nearby development will help maintain the quality of this habitat. This Core Habitat is also known for its populations of sea-running Brook Trout, of which there are few remaining populations in the state.

Core Habitat LW223

Ashumet Pond is a 203-acre kettlehole pond that is fed by groundwater and an inlet. It supports three of the state's twelve freshwater mussel species, including the rare Tidewater Mucket. Both young and old specimens of this rare species have been found in Ashumet Pond, suggesting that it is successfully reproducing here.

Core Habitat LW224

John's Pond is a 243-acre kettlehole pond that supports four of the state's twelve freshwater mussel species, including the rare Tidewater Mucket. John's Pond is a productive mussel site, as thousands of mussels of various species have been found anchored in its bottom sands amongst the sparse aquatic vegetation.

Core Habitat LW225

The Mashpee-Wakeby Pond complex is a large water body comprised of two groundwater-fed kettlehole ponds. This pond complex is believed to be one of the most diverse and productive sites for freshwater mussels in southeastern Massachusetts, supporting seven of the state's twelve species. These species include three rare mussels: the Tidewater Mucket, the Triangle Floater, and a robust population of the Eastern Pondmussel.

Core Habitat LW322

Quashnet River contains spawning habitats for Blueback Herring, an anadromous fish that migrates from coastal waters to fresh waters to spawn (breed). This is one of the few Blueback Herring spawning areas in the Cape Cod watershed.



Help Save Endangered Wildlife!

Please contribute on your Massachusetts income tax form or directly to the



To learn more about the Natural Heritage & Endangered Species Program and the Commonwealth's rare species, visit our web site at: www.nhesp.org.